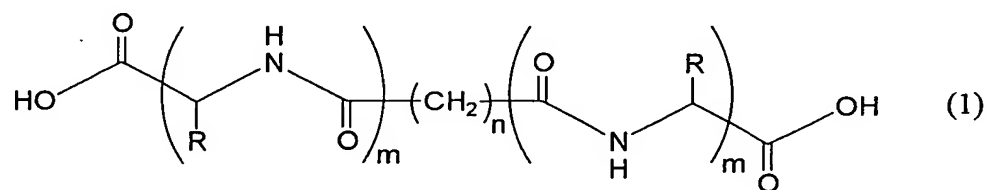


ABSTRACT

The present invention relates to a fine spherical particle having uniform molecular orientation having uniform molecular orientation, which is useful in fine chemical fields or electronic and information fields, such as a functional material and a medical material, using membrane formation of a bicephalic compound; a spherical microcapsule encapsulating a hydrophilic core substance; and a process for producing the same. The fine spherical particle can be produced by immersing a substrate having hydrophilicity in an aqueous solution of a salt of the compound represented by the following formula (1) to precipitate the fine particle under an acidic atmosphere.



wherein R represents a hydrogen atom or an alkyl group having 1 to 5 carbon atoms; n is an integer of 8 to 20; and m is an integer of 1 to 3. The spherical microcapsule encapsulating a fine particle of a hydrophilic core substance is produced by immersing a substrate having hydrophilicity in an aqueous solution in which a metal salt of the compound represented by formula (1) and the hydrophilic core substance are dissolved; and allowing the aqueous solution to stand under an acidic atmosphere to precipitate the fine particle. The resulting fine spherical particle and the spherical microcapsule has a particle diameter of 0.01 to 100 μm .

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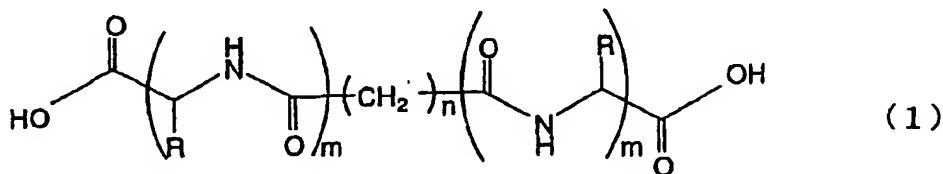
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のガイダンスノート」を参照。(54) Title: FINE SPHERICAL PARTICLES WITH SATISFACTORY MOLECULAR ORIENTATION, SPHERICAL MICRO-
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(54) 発明の名称: 分子配向の揃った球状微粒子、それを用いた球状マイクロカプセル及びそれらの製造方法

(57) **Abstract:** Fine spherical particles with satisfactory molecular orientation which are based on film formation of a bola-form compound and are useful in the field of fine chemicals such as functional materials and medical materials, the electronic/information field, etc.; spherical microcapsules having a hydrophilic core substance encapsulated therein; and processes for producing the spherical particles and the microcapsules. The fine spherical particles can be produced by immersing a hydrophilic substrate in an aqueous solution of a salt of a compound represented by the following general formula (1) and precipitating fine particles in an acid atmosphere. (1) (In the formula, R represents hydrogen or C₁₋₅ alkyl; n is an integer of 8 to 20; and m is an integer of 1 to 3.) The spherical microcapsules having a hydrophilic core substance encapsulated therein can be produced by immersing a hydrophilic substrate in an aqueous solution of both a salt of a compound represented by the general formula (1) and a hydrophilic core substance and precipitating fine particles in an acid atmosphere. The fine spherical particles and spherical microcapsules obtained have a particle diameter of 0.01 to 100 μm.

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